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WHAT IS CLAIMED IS:

1. A method of making glass, the method comprising:

processing a molten glass batch including Se in order to form a resulting glass product comprising SiO_2 and Se, in a manner so that the resulting glass product retains at least 30% of the Se originally present prior to melting.

- 2. The method of claim 1, wherein said processing is performed so that the resulting glass product retains at least 40% of the Se originally present prior to melting.
- 3. The method of claim 1, wherein said processing is performed so that the resulting glass product retains at least 50% of the Se originally present in the batch prior to melting.
- 4. The method of claim 1, further comprising adding Epsom salt to the batch in an amount sufficient to reduce Se burnoff during melting or the processing.
 - 5. The method of claim 4, wherein the Epsom salt comprises $MgSO_4\,x~7H_2O.$
- 6. The method of claim 4, further comprising adding the Epsom salt to the batch in an amount of from 0.1 to 2.0% by weight.
 - 7. The method of claim 1, wherein said processing is performed so that the resulting glass product comprises a base glass portion comprising:

	Ingredient	wt. %
	${ m SiO}_2$	67 – 75 %
	Na_2O	10 - 20 %
	CaO	5 – 15 %
5	MgO	0-5 %
	$A1_2O_3$	0-5 %
	K_2O	0-5 %
	BaO	0 – 1 %
	and a colorant portion comprising:	
10	Ingredient	Amount
	Total iron (expressed as Fe ₂ O ₃):	1.0 to 2.2 % (wt. %)
	selenium (Se):	10 to 50 ppm
	cobalt oxide:	0.015 to 0.040 %
	titanium oxide:	0 to 3.5 %

chromium oxide:

8. The method of claim 7, wherein the glass is grey in color and has a dominant wavelength in the range of from 435 nm to 570 nm.

0 to 80 ppm.

9. The method of claim 7, further comprising adding from 30-90 ppm of Se metallic powder to the batch.

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- 10. The method of claim 7, further comprising adding from 70 to 180 ppm of Na_2SeO_3 to the batch, so that at least a portion of the Se is added to the batch in the form of Na_2SeO_3 .
- 11. The method of claim 7, wherein said processing is performed so that theresulting glass product includes a colorant portion comprising:

Ingredient	<u>Amount</u>
Total iron (expressed as Fe ₂ O ₃):	1.2 to 1.8 % (wt. %)
selenium (Se):	20 to 40 ppm
cobalt oxide:	0.018 to 0.030 %
titanium oxide:	0.1 to 2.6 %
chromium oxide:	5-20 ppm.

12. The method of claim 1, wherein said processing is performed so that the resulting glass product includes a base glass portion comprising:

15	Ingredient	wt. %
	SiO_2	67 – 75 %
	Na ₂ O	10 – 20 %
	CaO	5 – 15 %
	MgO	0-5%
20	$A1_2O_3$	0-5 %
	K_2O	0 – 5 %
	BaO	0 – 1 %

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and a colorant portion consisting essentially of:

	<u>Ingredient</u>	Amount
	Total iron (expressed as Fe ₂ O ₃):	1.0 to 2.2 % (wt. %)
	selenium (Se):	10 to 50 ppm
5	cobalt oxide:	0.015 to 0.040 %
	titanium oxide:	0 to 3.5 %
	chromium oxide:	0 to 80 ppm.

13. A method of making glass, the method comprising:

providing a glass batch including SiO₂, Fe₂O₃, Epsom salt, and an original amount of Se; and

forming a resulting glass product from the glass batch in a manner such that the resulting glass product includes at least 30% of the original amount of Se due at least to the presence of a sufficient quantity of the Epsom salt in the batch.

- 14. The method of claim 13, further comprising forming the resulting glass product in a manner such that the resulting glass product includes at least 40% of the original amount of Se.
- 15. The method of claim 14, further comprising forming the resulting glass product in a manner such that the resulting glass product includes at least 50% of the original amount of Se.

- 16. The method of claim 13, wherein the glass batch includes from 30-90 ppm Se and from 0.1 to 2.0% Epsom salt.
- 17. The method of claim 16, wherein the resulting glass product includes from5 10-50 ppm Se.
 - 18. The method of claim 13, wherein the Epsom salt comprises MgSO₄ x 7H₂O.
- 19. The method of claim 13, wherein said forming is performed so that the10 resulting glass product comprises a base glass portion comprising:

	Ingredient wt. %	
	${ m SiO_2}$	67 – 75 %
	Na ₂ O	10 – 20 %
	CaO	5 – 15 %
15	MgO	0 – 5 %
	$A1_2O_3$	0 – 5 %
	K_2O	0 – 5 %
	BaO	0-1%

and a colorant portion comprising:

	Ingredient	Amount
	Total iron (expressed as Fe ₂ O ₃):	1.0 to 2.2 % (wt. %)
	selenium (Se):	10 to 50 ppm
	cobalt oxide:	0.015 to 0.040 %
5	titanium oxide:	0 to 3.5 %
	chromium oxide:	0 to 80 ppm
	copper oxide:	0 to 500 ppm.

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- 20. The method of claim 19, wherein the resulting glass product is substantially free of nickel (Ni) and manganese (Mn).
- 21. The method of claim 13, wherein the resulting glass product includes from 1.0 to 2.2 % total iron (expressed as Fe_2O_3), and has a redox value FeO/Fe_2O_3 of from 0.20 to 0.30.
- 22. The method of claim 13, wherein the resulting glass product has an Lta15 (visible transmission, Ill. A, 2 degree observer) of from 10-30 %, and an IRtransmission percentage (%) of from 3-28%.
 - 23. The method of claim 22, wherein the resulting glass product has a transmissive a* value (Ill. D65, 10 degree observer) of from 0.0 to -10.0, and a transmissive b* value (Ill. D65, 10 degree observer) of from -4.0 to +10.0.

wt. %

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24. A method of making a grey colored glass, the method comprising:

providing a molten glass batch comprising SiO₂, Se, and Epsom salt;

processing the glass batch in order to make a resulting grey colored glass

product, the grey colored glass product including a base glass portion comprising:

	SiO_2	67 – 75 %
	Na_2O	10 – 20 %
	CaO	5 – 15 %
	MgO	0-5%
10	$A1_2O_3$	0-5%
	K_2O	0-5%
	BaO	0 – 1 %
	and a colorant portion comprising:	
	Ingredient	<u>Amount</u>
15	Total iron (expressed as Fe ₂ O ₃):	1.0 to 2.2 % (wt. %)
	selenium (Se):	10 to 50 ppm
	cobalt oxide:	0.015 to 0.040 %
	titanium oxide:	0 to 3.5 %
	chromium oxide:	0 to 80 ppm;

Ingredient

and wherein the Epsom salt is provided in the glass batch in sufficient quantity so that the resulting glass product retains at least 30% of the Se originally present in the batch.

- 25. The method of claim 24, wherein the Epsom salt is provided in the glass batch in sufficient quantity so that the resulting glass product retains at least 40% of the Se originally present in the batch.
- 26. The method of claim 25, wherein the Epsom salt is provided in the glass batch in an amount of from 0.1 to 2.0% by weight so that the resulting glass product retains at least 50% of the Se originally present in the batch.
 - 27. A grey colored glass comprising:a base portion and a colorant portion;said base portion of the glass comprising:

10	Ingredient	wt. %
	SiO_2	67 – 75 %
	Na ₂ O	10 – 20 %
	CaO	5 – 15 %
	MgO	0 – 5 %
15	$A1_2O_3$	0 - 5 %
	K_2O	0 – 5 %
	BaO	0-1%

and said colorant portion consisting essentially of:

Ingredient

Amount

Total iron (expressed as Fe_2O_3):

1.2 to 1.8 % (wt. %)

selenium (Se):

10 to 50 ppm

cobalt oxide:

0.015 to 0.040 %

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titanium oxide:

0.2 to 3.5 %

chromium oxide:

5-20 ppm; and

wherein the glass is grey in color and has a dominant wavelength in the range of from 435 nm to 570 nm, is substantially free of manganese dioxide, and is substantially free of nickel.

- 28. The glass of claim 27, wherein the glass has an excitation purity (Pe) from 1 to 7%.
- 29. The glass of claim 27, wherein the glass has a visible transmission Lta (III. A, 2 degree observer) of from 10-30 %, and an IR transmission of from 3-28%.
 - 30. The glass of claim 29, wherein the glass has a transmissive a* value (III.
- D65, 10 degree observer) of from 0.0 to -10.0, and a transmissive b* value (Ill. D65, 10 degree observer) of from -4.0 to +10.0.

31. A glass comprising:

	Ingredient	<u>wt. %</u>
	${ m SiO_2}$	67 – 75 %
	Na_2O	10 – 20 %
5	CaO	5 – 15 %
	MgO	0 – 5 %
	$A1_2O_3$	0 – 5 %
	K ₂ O	0 – 5 %
	ВаО	0 - 1%; and

wherein the glass has a Se retention of at least 30%.